

TABLE I. General Statistics for Mineral Operations: 1963 and Earlier Years

| Total<br>(number)                                                                                                        | Kind of<br>operation and<br>year | Establishments                                                                                      |                                                      | All employees                 |                                                  | Production workers                              |                                      | development, and exploration |                                        | Value added<br>in mining<br>(\$1,000)                    |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------|------------------------------|----------------------------------------|----------------------------------------------------------|
|                                                                                                                          |                                  | Total<br>(number)                                                                                   | With 20<br>employees<br>or more<br>(number)          | Total<br>(number)             | Payroll<br>(\$1,000)                             |                                                 | Man-hours<br>(1,000)                 |                              |                                        |                                                          |
| MINERAL INDUSTRIES ONLY                                                                                                  |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 518                                                                                                 |                                                      | 9 878                         | 71 222                                           | 6 643                                           |                                      | 13 947                       | 13 317                                 | 129 730                                                  |
| 1950                                                                                                                     |                                  | 543                                                                                                 |                                                      | 9 657                         | 57 027                                           | 6 077                                           | 4                                    | 13 626                       | 13 002                                 | 115 967                                                  |
| 1951                                                                                                                     |                                  | 629                                                                                                 |                                                      | 11 517                        | 62 881                                           | 6 811                                           | 6                                    | 16 907                       | 13 247                                 | 96 838                                                   |
| INCLUDING OPERATIONS IN MANUFACTURES AND ALL OPERATIONS                                                                  |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 590                                                                                                 | 79                                                   | 10 651                        | 79 123                                           | 7 409                                           |                                      | 15 458                       | 15 267                                 | 141 771                                                  |
| 1958                                                                                                                     |                                  | 622                                                                                                 | 82                                                   | 10 460                        | 60 533                                           | 10 100                                          |                                      | 15 142                       | 12 400                                 | 129 591                                                  |
| 1954                                                                                                                     |                                  | 694                                                                                                 | 80                                                   | 12 364                        | 66 310                                           | 11 711                                          | 1                                    | 18 612                       | 13 000                                 | 104 719                                                  |
| 1939                                                                                                                     |                                  | 518                                                                                                 | (NA)                                                 | 8 737                         | 15 430                                           | 7 69                                            | 4                                    | 14 682                       | 13 44                                  | 32 817                                                   |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES                                                                              |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 400                                                                                                 | 73                                                   | 9 608                         | 68 223                                           | 6 724                                           |                                      | 14 078                       | 41 853                                 | 132 179                                                  |
| 1958                                                                                                                     |                                  | 387                                                                                                 | 79                                                   | 9 366                         | 54 500                                           | 16 100                                          | 4                                    | 13 811                       | 34 829                                 | 122 144                                                  |
| 1954                                                                                                                     |                                  | 387                                                                                                 | 71                                                   | 9 848                         | 54 102                                           | 17 700                                          |                                      | 16 347                       | 34 779                                 | 95 708                                                   |
| 1939*                                                                                                                    |                                  | 3291                                                                                                | (NA)                                                 | 14 517                        | 12 517                                           | 18 800                                          | 2                                    | 11 710                       | 7 702                                  | 22 190                                                   |
| 1929                                                                                                                     |                                  | 261                                                                                                 | (NA)                                                 | 15 24                         | 12 567                                           | 18 800                                          | 4                                    | (NA)                         | 10 030                                 | 28 448                                                   |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 312                                                                                                 | 93                                                   | 8 342                         | 60 925                                           | 5 477                                           |                                      | 11 577                       | 33 985                                 | 107 862                                                  |
| 1958                                                                                                                     |                                  | 358                                                                                                 | 59                                                   | 8 328                         | 48 456                                           | 5 498                                           |                                      | 11 606                       | 28 396                                 | 96 728                                                   |
| 1954                                                                                                                     |                                  | 329                                                                                                 | 56                                                   | 10 217                        | 56 114                                           | 6 665                                           |                                      | 14 505                       | 30 273                                 | 77 883                                                   |
| 1939                                                                                                                     |                                  |                                                                                                     | (NA)                                                 | 41                            | 12 150                                           | 5 286                                           |                                      | (NA)                         | 7 002                                  | 25 069                                                   |
| 1919                                                                                                                     |                                  | 700                                                                                                 | (NA)                                                 | 21                            | 8 929                                            | 6 202                                           |                                      | (NA)                         | 7 497                                  | 15 524                                                   |
| 1909                                                                                                                     |                                  | 356                                                                                                 | (NA)                                                 | 17                            | 5 433                                            | 9 316                                           |                                      | (NA)                         | 4 723                                  | 10 212                                                   |
| 1902                                                                                                                     |                                  | 699                                                                                                 | (NA)                                                 | 9 990                         | 4 592                                            | 7 197                                           |                                      | (NA)                         | 3 947                                  | 7 713                                                    |
| Selected expenses                                                                                                        |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| Energy used (kw. equivalent)                                                                                             |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| Kind of operation and year                                                                                               |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
|                                                                                                                          |                                  | Supplies,<br>purchases for<br>resale, and<br>purchased fuels<br>and electric<br>energy<br>(\$1,000) | Minerals<br>received for<br>preparation<br>(\$1,000) | Contract<br>work<br>(\$1,000) | Purchased<br>machinery<br>installed<br>(\$1,000) | Value<br>shipments<br>and receipts<br>(\$1,000) | Capital<br>expenditures<br>(\$1,000) | Total<br>(million)           | Per<br>production<br>worker<br>(1,000) | Horsepower<br>rating of power<br>equipment<br>(1,000 hp) |
| MINERAL INDUSTRIES ONLY                                                                                                  |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 35 397                                                                                              | 22 220                                               | 9 093                         | 8 371                                            | 166 561                                         | 15 310                               | 24 105                       | 46 7                                   | 725 (NA)                                                 |
| 1958                                                                                                                     |                                  | 29 493                                                                                              | 23 979                                               | 4 961                         | 5 930                                            | 147 603                                         | 12 780                               | 25 766                       | 43                                     | 68                                                       |
| 1954                                                                                                                     |                                  | 26 460                                                                                              | 340                                                  |                               | 12 194                                           | 128 393                                         | 12 400                               | 256                          | 42 6                                   | 1                                                        |
| INCLUDING OPERATIONS IN MANUFACTURES AND ALL OPERATIONS                                                                  |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 339 199                                                                                             | 26 27                                                | 3 15                          |                                                  | 182 449                                         | 12 15                                | 3 109                        | 46 7                                   | 12 72                                                    |
| 1958                                                                                                                     |                                  | 331                                                                                                 | 27 979                                               | 9 103                         |                                                  | 163 147                                         | 12 388                               | 3 272                        | 38                                     | 5                                                        |
| 1954                                                                                                                     |                                  | 929                                                                                                 | 79                                                   | 038                           |                                                  | 658 933                                         | 12 933                               | 3 268                        | 6                                      | (NA)                                                     |
| 1939                                                                                                                     |                                  | 672 6 982                                                                                           | 340 (NA)                                             | 028 1                         |                                                  | 138 908                                         | 12 485                               | 1 700                        | 38 6                                   | 68 7                                                     |
| 1919                                                                                                                     |                                  |                                                                                                     |                                                      | 431                           |                                                  | 41 230                                          | (NA)                                 |                              | 24 1                                   | 285                                                      |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES                                                                              |                                  |                                                                                                     |                                                      |                               |                                                  |                                                 |                                      |                              |                                        |                                                          |
| 1963                                                                                                                     |                                  | 1954                                                                                                |                                                      | 5 998                         |                                                  | 28 209                                          | 79 340                               |                              | 00 9                                   | 171                                                      |
| 1939*                                                                                                                    |                                  | 36 940                                                                                              |                                                      | 7                             |                                                  |                                                 | 3                                    | 80                           | 15                                     | 041                                                      |
| 1929                                                                                                                     |                                  | 25 4                                                                                                |                                                      | 491                           |                                                  |                                                 | 9                                    | 91                           | 10                                     | 194                                                      |
| 1958                                                                                                                     |                                  | 082                                                                                                 |                                                      |                               |                                                  |                                                 |                                      | 0                            | 6                                      | 900                                                      |

|                                                                                                                          |        |        |       |       |       |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|------|------|------|
| 127 050                                                                                                                  |        | "9 409 |       | 2 777 |       | 38   |      | )    |
| 28 307                                                                                                                   |        | (NA)   |       | 1183  |       | 1    |      | 60   |
| 36 045                                                                                                                   |        | (NA)   |       | 1248  | 44    | 21   | 12   | 9    |
|                                                                                                                          | <12    |        |       |       | 7     | 6    |      | .24  |
|                                                                                                                          | 086    |        |       |       | 37    | 19   | 651  | 6    |
|                                                                                                                          | 1211   |        | 019   |       | 7     | 4    | (NA) | 146  |
|                                                                                                                          | 062    |        | 2 445 |       |       |      |      |      |
| EXCLUDING SAND, GRAVEL, COMMON CLAY AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS' |        |        |       |       |       |      |      |      |
| 1963.....                                                                                                                | 30     | 30     | 0     | 26    | 139   | "12  | 2    | 476  |
| 1963.....                                                                                                                | 389    | 671    | 9     | 702   | 245   | 800  | 605  | 514  |
| 1963.....                                                                                                                | 25 760 | 31     |       | 14    | 124   | 10   | 2    | (NA) |
| 1963.....                                                                                                                | 23     | 30     |       | 406   | 356   | 696  | 383  | 525  |
| 1963.....                                                                                                                |        | 340    |       | 19    | 104   | 10   | 13   | (NA) |
| 1963.....                                                                                                                | 291    | (NA)   |       | 741   | 738   | 601  | 107  | 91   |
| 1963.....                                                                                                                | 9 416  |        |       | (NA)  | 31    | (NA) | (NA) | 102  |
| 1963.....                                                                                                                |        |        |       | (NA)  | 854   | (NA) |      | 85   |
| 1963.....                                                                                                                |        | 2      | 228   | (NA)  | 25    | (NA) | 1    |      |
| 1963.....                                                                                                                | 6 126  | 6      | 14    | (NA)  | 131   | (NA) | 423  |      |
| 1963.....                                                                                                                | 2 940  | 9      |       | (NA)  | 13    | (NA) | (NA) |      |
| 1963.....                                                                                                                | 1 630  | 2      | 124   | (NA)  | 339   | (NA) | (NA) |      |
|                                                                                                                          |        | 6      | 1369  |       | 9 694 |      |      |      |
|                                                                                                                          |        | 6      |       |       |       |      |      |      |
|                                                                                                                          |        | (NA)   | 789   |       |       |      |      |      |
|                                                                                                                          |        |        | 517   |       |       |      |      |      |
|                                                                                                                          |        |        | 351   |       |       |      |      |      |

Note: See appendix A for an explanation of terras used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Excludes figures for sand and gravel mining operations in manufacturing establishments.

Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing sandstone and slate at such operations was \$78 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for granite is not available.

Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies. Includes figures for one natural gas liquids plant and 4 nonproducing crude petroleum and natural gas establishments. See also footnote 5.

Excludes figures for common clay and shale mining operations. In 1939, there were 34 such mines with products valued at \$420 thousand. Also excludes data for 2 nonproducing establishments.

Includes figures for 24 sand and gravel mining operations in manufacturing establishments with products valued at less than \$3 million.

Include's figures for 4 or less limestone quarries operated as parts of lime plants and for one nonproducing sand and gravel establishment. See also footnote 5.

Includes figures for lime plants producing lime valued at \$561 thousand.

Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For energy used and horsepower in 1963, also excludes figures for dimension stone operations in manufacturing establishments.

Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

Excludes purchased electric energy. For such operations in 1954, the quantity of purchased electric energy amounted to only 9 percent of the total kwh equivalent of energy used.